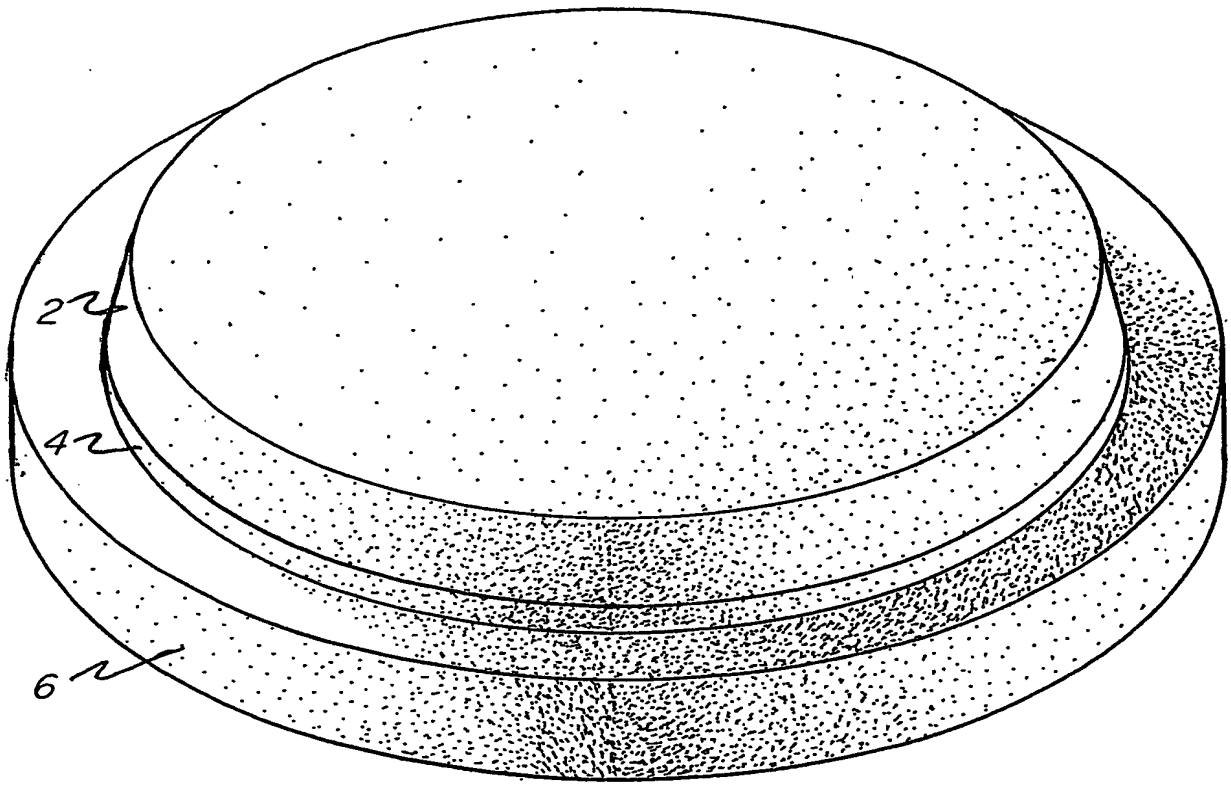
FIG -1



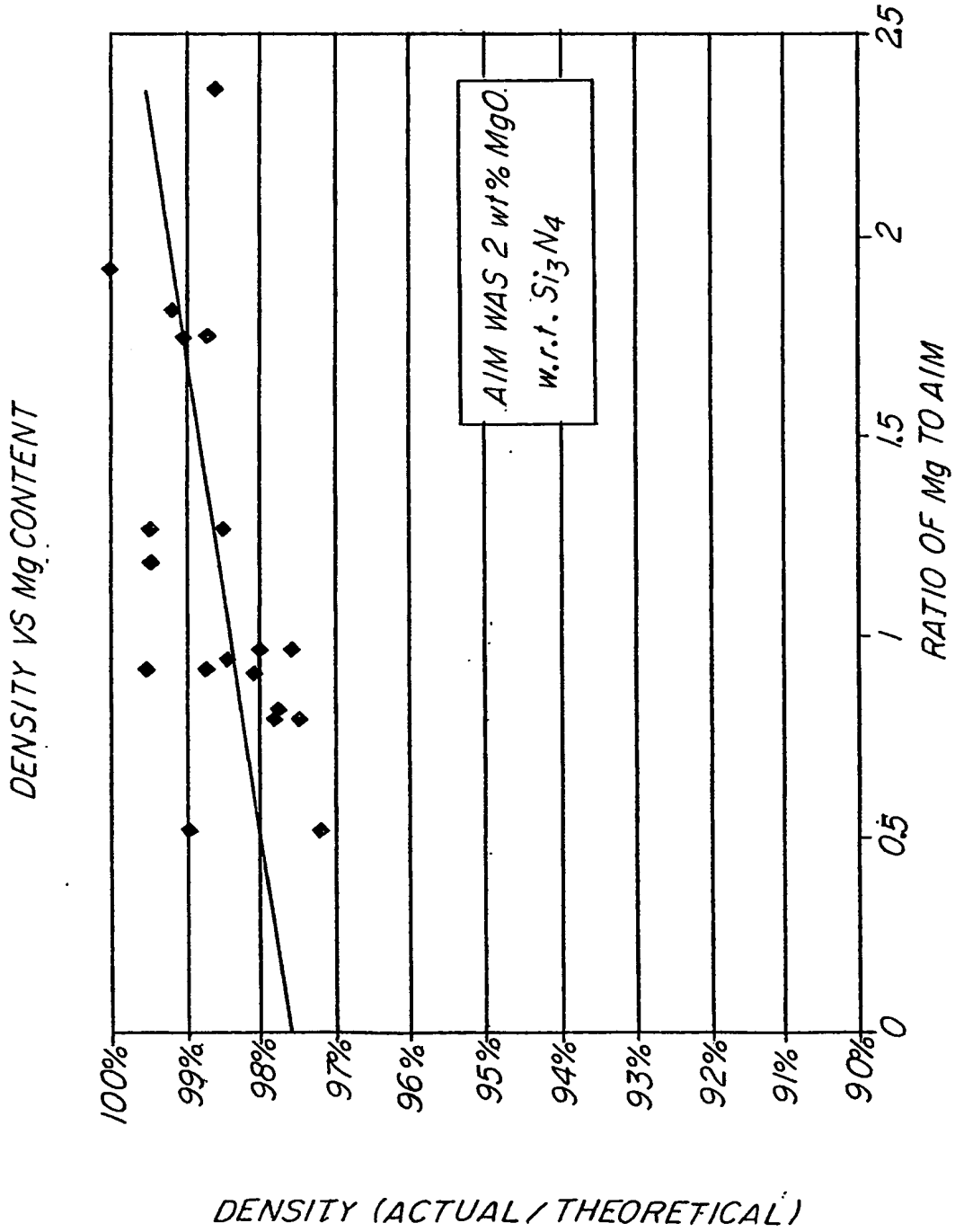

DENSITY VS Mg CONTENT
AIM WAS 2 wt% MgO
w.r.t. Si_3N_4
RATIO OF Mg TO AIM
0
.5
1
1.5
2
2.5
100%
99%
98%
97%
96%
95%
94%
93%
92%
91%
90%
DENSITY (ACTUAL / THEORETICAL)

FIG-2

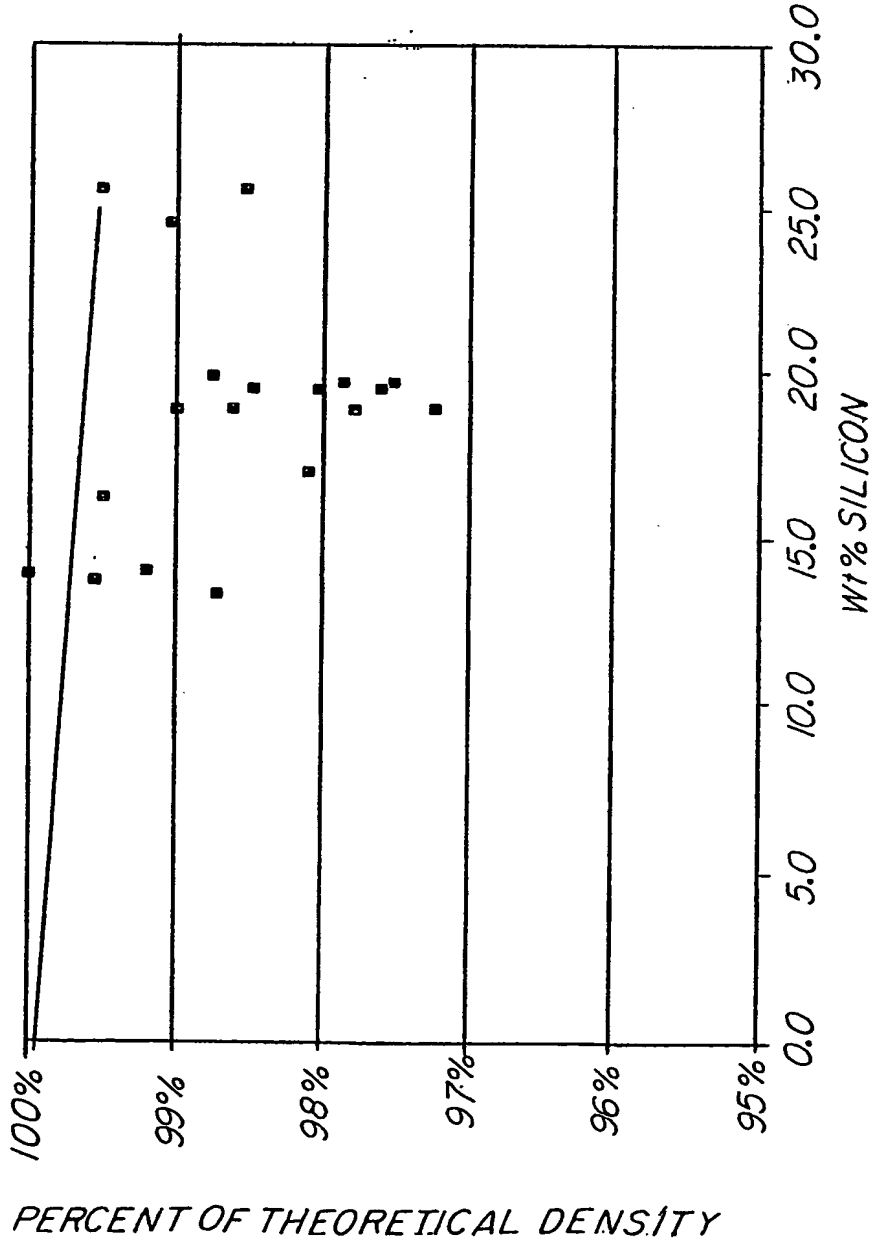

30.0
25.0
20.0
15.0
10.0
5.0
0.0
Wt% SILICON
100%
99%
98%
97%
96%
95%
PERCENT OF THEORETICAL DENSITY

FIG-3

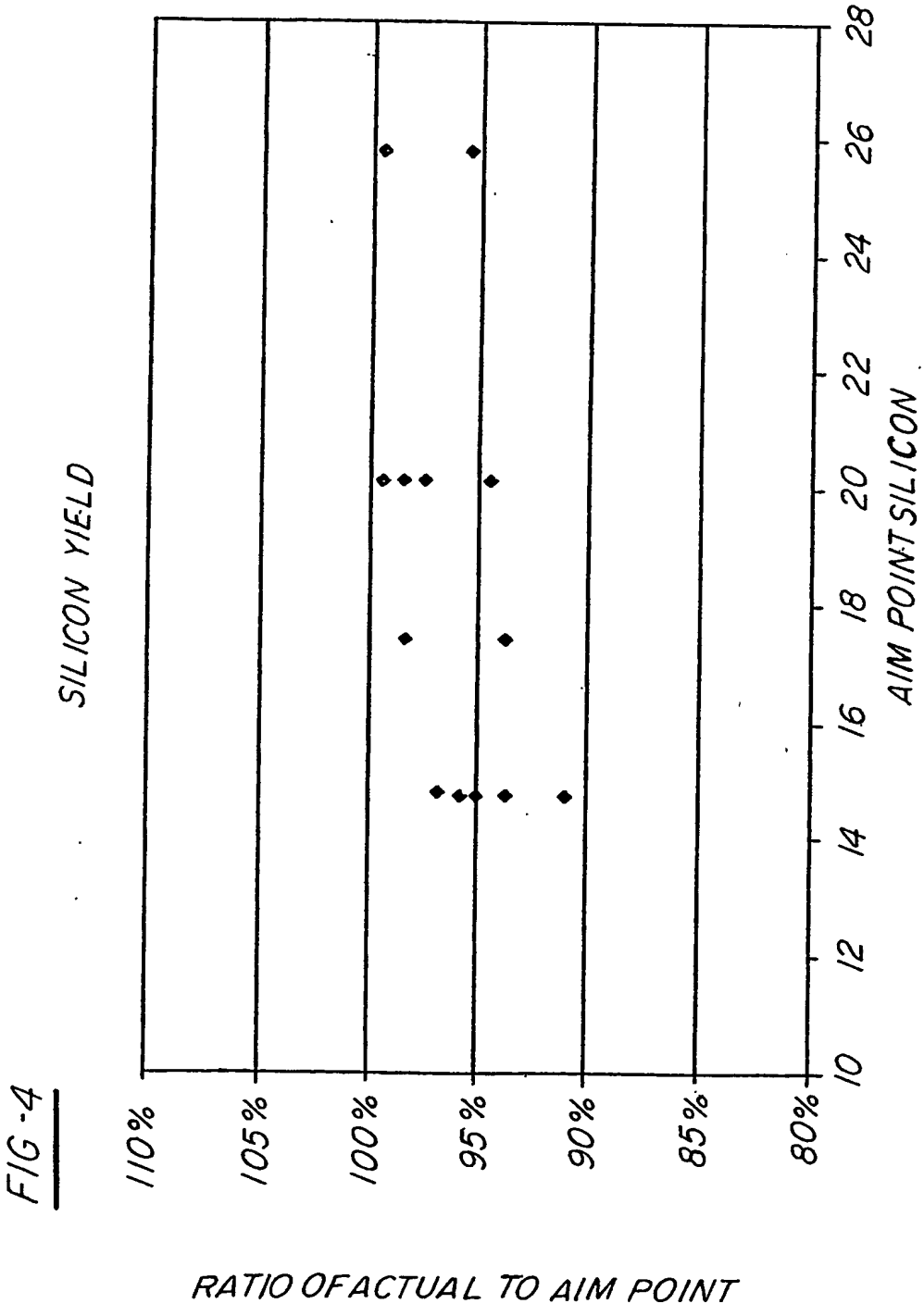

SILICON YIELD
110%
105%
100%
95%
90%
85%
80%
RATIO OF ACTUAL TO AIM POINT
10
12
14
16
18
20
22
24
26
28
AIM POINT SILICON

FIG-4

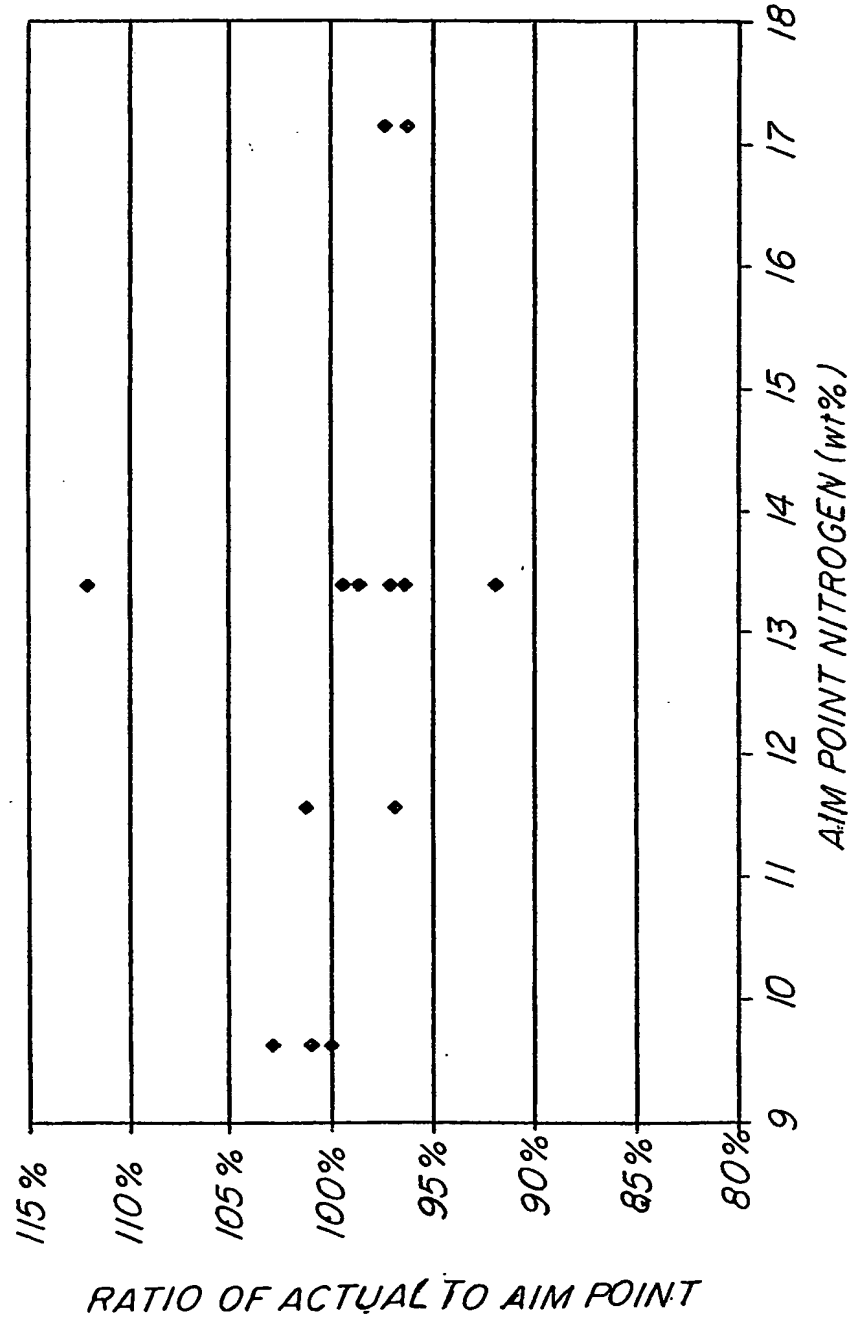

NITROGEN YIELD
115 %
110%
105 %
100%
95%
90%
85%
80%
RATIO OF ACTUAL TO AIM POINT
9
10
11
12
13
14
15
16
17
18
AIM POINT NITROGEN (wt%)

FIG-5